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AN ANNOTATED LIST OF THE BUTTERFLIES AND
SKIPPERS OF CUBA
(LEPIDOPTERA, RHOPALOCERA)

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PREFACE

In view of the fact that since the year 1935 when Mr. Marston Bates published his paper entitled "The Butterflies of Cuba"⁽¹⁾, several species and subspecies of butterflies have been reported which had not previously been observed in Cuba, and bearing in mind that since the publication of Bates' catalog there has developed an intense activity in the field of taxonomy, we have considered it necessary to rectify the classification of many of the species included in the above mentioned catalog and to publish this paper giving the correct names of all the species and subspecies of butterflies found in Cuba up to the year 1953.

As we have consulted some publications not available to Bates, besides others edited after his work appeared, our bibliography will be found useful to those who desire to widen their knowledge of the Lepidoptera of Cuba.

While assembling our data and consulting our bibliography we have had the help of many scientists and librarians to whom we wish to express our gratitude, among them Dr. William T. M. Forbes, of

¹See Bulletin of the Museum of Comparative Zoölogy at Harvard College, LXXVIII, No. 2, February, 1935, pp. 63-250.

the Department of Entomology of Cornell University; Dr. Charles D. Michener, Associate Curator of the American Museum of Natural History and now in the Department of Entomology of the University of Kansas; Ernest L. Bell, Dr. Alexander B. Klots and William P. Comstock, Research Associates of the American Museum of Natural History; the late José R. de la Torre-Bueno, who was editor of the Brooklyn Entomological Society; N. D. Riley, of the Department of Entomology of the British Museum; L. E. Commerford, Chief of Division of Publications of the Smithsonian Institution, Washington; Ralph L. Chermock, Assistant Professor of the Biology Department of the University of Alabama; Dr. Carlos G. Aguayo, Professor of Zoölogy of the University of Havana, Cuba; J. A. Ramos, Professor and Director of the Department of Biology of the University of Porto Rico; Dr. Oliveira M. de Oliveira and Dr. Benedicto A. Monteiro Soares, Director and Sub-Director, respectively, of the Department of Zoölogy of the Ministry of Agricultura of São Paulo, Brazil; F. Martin Brown, of Fountain Valley School, Colorado Springs; Romualdo Ferreira D'Almeida, of the Ministry of Education and Health of Rio de Janeiro, Brazil; Dr. Charles L. Remington, editor of the Lepidopterists' News; Miss Anita Hoffmann, daughter of the late Carlos Hoffmann, of Mexico; Rene Lichy, of Caracas, Venezuela; Dr. H. B. Hungerford, Head of the Department of Entomology of the University of Kansas; Abel Dufrane, Conservateur Musée d'Histoire Naturelle, of Ville de Mons, Belgium; Dr. Leonila Vázquez, of the Instituto of Biology Mexico; Harry K. Clench, of the Museum of Comparative Zoölogy at Harvard College; Dr. Richard M. Fox, of the Department of Entomology of the Carnegie Museum; S. G. Kiriaffoff, of the University of Gent, Belgium; Zdenek Losenický, of Plzen, Czechoslovakia; William D. Field, Associate Curator of the United States National Museum, Washington; Cyril F. dos Passos, of Mendham, N. J.; John S. Garth, of the University of Southern California and Ricardo N. Orfila, Chief Section Ent. Inst. Nac. Inv. Ciencias Nat., Buenos Aires, Argentina.

Order LEPIDOPTERA**Suborder RHOPALOCERA****Superfamily PAPILIONOIDEA****Family PAPILIONIDÆ****Subfamily PAPILIONINÆ****Genus *Papilio* Linnæus**

Papilio Linnæus, 1758: 458.

Genotype: *Papilio machaon* Linnæus, 1758.

1. PAPILIO (HECTORIDES) GUNDLACHIANUS Felder & Felder

Papilio gundlachianus Felder & Felder, 1864; Gundlach, 1881: 124; id., 1891: 450; Bates, 1935: 106; S. L. de la Torre, 1947b: 27; Jaume, 1947: 91; Brown, 1950: 40.

Papilio columbus: Rothschild & Jordan, 1906: 436.

Illustrations.—Bates, 1935: f. 3, (venation); S. L. de la Torre, 1946: pl. 10, f. 38-40, (scales); id., 1947b: pl. 1, f. 1.

2. PAPILIO (LÆRTIAS) DEVILLIERS Godart

Papilio devilliers Godart, 1823; Rothschild & Jordan, 1906: 514; Bates, 1935: 106; S. L. de la Torre, 1947b: 28; Jaume, 1947: 92; Brown, 1950: 41.

Papilio devilliersii: Gundlach, 1881: 123.

Papilio devilliersi: Holland, 1942: 313.

Illustrations.—Holland, 1942: pl. LXX, f. 1; S. L. de la Torre, 1947b: pl. 1, f. 2.

3. PAPILIO (LÆRTIAS) POLYDAMUS CUBENSIS Dufrane

Papilio (Pharmacophagus) polydamas cubensis Dufrane, 1946: 102.

Papilio polydamas: Gundlach, 1881: 121; id., 1891: 450; Dethier, 1940: 22.

Papilio polydamas polydamas: Rothschild & Jordan, 1906: 520; Bates, 1935: 108; Berger, 1939: 189; Comstock, 1944: 535; S. L. de la Torre, 1947b: 29; Jaume, 1947: 93.

Papilio polydamus polydamus: Bruner, Scaramuzza & Otero, 1945: 17; Beebe, 1949: 123; Brown, 1950: 41.

Papilio (Lærtias) polydamas cubensis: S. L. de la Torre, 1949c: 184.

This subspecies was described by Abel Dufrane in 1946 (see "Papilionidae". Bull. & Ann. Soc. Ent. Belgium, vol. 82, pp. 101-122). Illustrations.—S. L. de la Torre, 1947b: pl. 1, f. 3; Beebe, 1949: pl. I, f. 9.

4. PAPILIO (PAPILIO) POLYXENES POLYXENES Fabricius

Papilio polyxenes Fabricius, 1775; Gundlach, 1881: 136; Comstock, 1944: 539.

Papilio polyxenes polyxenes: Rothschild & Jordan, 1906: 547; Bates, 1935: 108; Bruner, Scaramuzza & Otero, 1945: 79, 128, 132; S. L. de la Torre, 1947b: 32; Jaume, 1947: 96.

Illustrations.—S. L. de la Torre, 1947b: pl. 4, f. 15, 16.

5. PAPILIO (HERACLIDES) THOAS OVIEDO Gundlach

Papilio oviedo Gundlach, 1866: 279; id., 1881: 133.

Papilio thoas oviedo: Rothschild & Jordan, 1906: 557; Bates, 1935: 109; Bruner, Scaramuzza & Otero, 1945: 145, 188; S. L. de la Torre, 1947b: 37; Jaume, 1947: 94.

Illustrations.—Gundlach, 1866: pl. 5, f. 1; S. L. de la Torre, 1946: pl. 10, f. 43, 44, (scales); id., 1947b: pl. 3, f. 14.

6.* PAPILIO (HERACLIDES) CRESPHONTES Cramer

Papilio cespontes Cramer, 1777; Gundlach, 1866: 279; id., 1881: 131; Rothschild & Jordan, 1906: 562; Showalter, 1927: 109; Clark, 1932: 178; Hoffmann, 1933: 225; id., 1936: 262; id., 1940c: 659; Fazzini, 1934: 26; Bates, 1935: 110; Field, 1938b: 208; Holland, 1942: 317; Brown, 1943: 171; Jaume, 1947: 97.

Papilio cespontes cespontes: Hoffmann 1940b: 633; Chermock, 1946: 146.

Papilio thoas cespontes: S. L. de la Torre, 1947b: 38.

The writer has not seen any Cuban specimens of this species, neither were they seen by Bates and the writer thinks the species was wrongly classified by Gundlach, having taken into consideration that only the *Papilio thoas* has been observed.

The marked (*) species have been collected in Cuba only a few times.

Illustrations.—Gundlach, 1866: pl. 5, fig. 2; Shouwalter, 1927: pl. V, f. 4; Clark, 1932: pl. 31, f. 1, pl. 32, f. 1; Holland, 1942, pl. XLII, f. 3, pl. II, f. 16, (larva), pl. VI, f. 8-10, (pupa); S. L. de la Torre, 1947b: pl. 3, f. 13, pl. 2, f. 8.

7. PAPILIO (HERACLIDES) CAIGUANABUS Poey

Papilio caiguuanabus Poey, 1854; Gundlach, 1881: 127; Rothschild & Jordan, 1906: 567; Bates, 1935: 110; S. L. de la Torre, 1947b: 33; Jaume, 1947: 98; Brown, 1950: 64.

Illustration.—S. L. de la Torre, 1947b: pl. 2, f. 12.

8. PAPILIO (HERACLIDES) ARISTODEMUS TEMENES Latreille

Papilio temenes Latreille (not Godart), 1819. (See Brown, 1941: 131).

Papilio cresphontinus: Gundlach, 1881: 130.

Papilio aristodemus temenes: Rothschild & Jordan, 1906: 569; Bates, 1935: 111; Comstock, 1944: 536; Bruner, Scaramuzza & Otero, 1945: 12; S. L. de la Torre, 1947b: 38; Jaume, 1947: 99.

Illustrations.—S. L. de la Torre, 1947b: pl. 2, f. 10; id., 1946: pl. 10, f. 42, (scales).

9. PAPILIO (HERACLIDES) ANDRÆMON ANDRÆMON (Hübner)

Heraclides andræmon Hübner, 1823?.

Papilio andræmon: Gundlach, 1881: 128; Holland, 1916: 500; Brown, 1950: 64.

Papilio andræmon andræmon: Rothschild & Jordan, 1906: 571; Bates, 1935: 112; Bruner, Scaramuzza & Otero, 1945: 50, 156; S. L. de la Torre, 1947b: 36; Jaume, 1947: 100.

Illustrations.—S. L. de la Torre, 1947b: pl. 2, f. 7; Bruner, Scaramuzza & Otero, 1945: pl. IX, f. 3; R. de la Torre, 1936: pl. 24, f. 1.

10. PAPILIO (HERACLIDES) ANDRÆMON HERNANDEZI Torre

Papilio (Heraclides) andræmon bernandezi R. de la Torre, 1936: 333; S. L. de la Torre, 1949: 65.

Papilio andræmon bernandezi: S. L. de la Torre, 1947b: 36.

This subspecies was described by Dr. Ricardo de la Torre Madrazo in 1936. (See Mem. Soc. Cub. Hist. Nat., vol. X, p. 333).

Illustration.—R. de la Torre, 1936: pl. 24, f. 2.

11.* PAPILIO (HERACLIDES) PALAMEDES Drury

Papilio palamedes: Clark, 1932: 252; Bates, 1935: 236; J. H. Comstock & A. B. Comstock, 1936: 55; Hoffmann, 1940c: 651; Holland, 1942: 321; S. L. de la Torre, 1947b: 26; Brown, 1950: 64.

This species was captured once in the province of Havana. (See Poey, 1846: 234; Gundlach, 1881: 138, and Bates, 1935: 236).

Illustrations.—Clark, 1932: pl. 47, f. 1, 2; J. H. Comstock & A. B. Comstock, 1936: pl. VII, f. 1; Holland, 1942: pl. XLII, f. 1.

12. PAPILIO (HERACLIDES) ANDROGEUS EPIDAURUS Godman & Salvin

Papilio epidaurus Godman & Salvin, 1890.

Papilio polycaon: Gundlach, 1881: 134; id., 1891: 454.

Papilio androgeus epidaurus: Rothschild & Jordan, 1906: 578; Hoffmann, 1933: 225; id., 1940c: 651; Bates, 1935: 112; id., 1939: 1; Comstock, 1944: 536; Bruner, Scaramuzza & Otero, 1945: 51; S. L. de la Torre, 1947b: 34; Jaume, 1947: 117.

Illustrations.—Comstock, 1944: pl. 11, f. 1; S. L. de la Torre, 1947b: pl. 2, f. 9, 11.

13.* PAPILIO (PTEROEURUS) TROILUS ILIONEUS J. E. Smith

Papilio troilus ilioneus: Clark, 1932: 191; Field, 1938b: 212.

Papilio troilus: J. H. Comstock & A. B. Comstock, 1936: 59.

Papilio troilus form *ilioneus*: Holland, 1942: 321.

Papilio (Pterourus) troilus ilioneus: S. L. de la Torre, 1949: 65; S. L. de la Torre & J. T. Sierra, 1949: 195.

This species was reported by us in 1949. (See The Lepidopterists' News, vol. III, No. 6, p. 65, and Mem. Soc. Cub. Hist. Nat., vol. XIX, p. 195).

Illustrations.—J. H. Comstock & A. B. Comstock, 1936: pl. IX, f. 1-2; Holland, 1942: pl. XLI, f. 5, pl. II, f. 18, 19, 22, (larva), pl. IV, f. 5-7, (pupa).

14. PAPILIO (PTEROEURUS) PELAUS ATKINSI Bates

Papilio pelaus pelaus: Rothschild & Jordan, 1906: 603.

Papilio pelaus atkinsi Bates, 1935: 113; Comstock, 1944: 538; S. L. de la Torre, 1947b: 29; Jaume, 1947: 90.

The marked (*) species have been collected in Cuba only a few times.

Papilio pelanus: Gunduach, 1881: 126.

Papilio pelaeus atkinsi: Bruner, Scaramuzza & Otero, 1945: 188.

Illustrations.—S. L. de la Torre, 1947b: pl. 1, f. 5; id., 1946: pl. 10, f. 41, (scales).

15. PAPILIO (PTEROEURUS) OXYNIUS (Hübner)

Lærtias oxyntius Hübner, 183—?

Papilio oxyntius: Gundlach, 1881: 127; id., 1891: 452; Rothschild & Jordan, 1906: 603; Bates, 1935: 114; id., 1939: 1; Bruner, Scaramuzza & Otero, 1945: 188; S. L. de la Torre, 1947b: 30; Jaume, 1947: 118; Brown, 1950: 64.

Illustrations.—S. L. de la Torre, 1947b: pl. 1, f. 6.

16. PAPILIO (IPHICLIDES) CELADON Lucas

Papilio celadon Lucas, 1852; Gundlach, 1881: 125; Rothschild & Jordan, 1906: 691; Holland, 1916: 500; id., 1942: 321; Bates, 1935: 114; Dethier, 1940: 22; S. L. de la Torre, 1947b: 31; Jaume, 1947: 119.

Illustrations.—Holland, 1942: pl. LXX, f. 11; S. L. de la Torre, 1947b: pl. 1, f. 4; id., 1946: pl. 10, f. 36, 37, (scales).

Family PIERIDÆ

Subfamily PIERINÆ

Genus *Ascia* Scopoli

Ascia Scopoli, 1777.

Genotype: *Papilio monuste* Linnaeus, 1764.

17. ASCIA (ASCIA) MONUSTE MONUSTE (Linnaeus)

Papilio monuste Linnaeus, 1764.

Ascia (Ascia) monuste crameri: Field, 1938b: 198.

Ascia (Ascia) monuste form crameri: Hoffmann, 1940c: 662.

Ascia monuste var. *crameri*: Holland, 1942: 278.

Ascia monuste monuste: Comstock, 1943: 1; id., 1944: 529; S. L. de la Torre, 1949: 65; id., 1949d: 172.

This subspecies was reported by the writer in 1949. (See The Lepidopterists' News, vol. III, No. 6, p. 65, and Mem. Soc. Cub. Hist. Nat., vol. XIX, p. 172).

Illustrations.—Holland, 1942: pl. LXVII, f. 17; Comstock, 1944: pl. 8, f. 9; S. L. de la Torre, 1949d: pl. 5, f. 1, 2, 6.

18. ASCIA (ASCIA) MONUSTE EUBOTEA (Latreille)

Pieris eubotea Latreille, 1819.

Pieris monuste: Gundlach, 1881: 100; Holland, 1916: 496.

Pieris phileta phileta: Bates, 1935: 116; Bruner, Scaramuzza & Otero, 1945: 17, 22, 23, 51, 184, 193.

Pontia monuste: J. H. Comstock & A. B. Comstock, 1936: 72.

Ascia (Ascia) monuste: Field, 1938b: 198; Hoffmann, 1940c: 662.

Ascia monuste: Holland, 1942: 278.

Ascia monuste eubotea: Comstock, 1943: 3; id., 1944: 529; Beatty, 1944: 157; J. A. Ramos, 1946: 54; S. L. de la Torre, 1949d: 173.

Pieris monuste eubotea: Avinoff & Shoumatoff, 1946: 268.

Illustrations.—Bruner, Scaramuzza & Otero, 1945: pl. VI, f. 4, (larva); J. H. Comstock, & A. B. Comstock, 1936: pl. XIII, f. 1; Holland, 1942: pl. XXXV, f. 1, 2; Comstock, 1944, pl. 10, f. 3, 4; S. L. de la Torre, 1949d: pl. 5, f. 3, 4; id., 1946: pl. 10, f. 20-22, (scales).

19. ASCIA (ASCIA) MONUSTE PHILETA (Fabricius)

Papilio phileta Fabricius, 1775.

Ascia (Ascia) monuste form *phileta*: Field, 1938b: 198; Hoffmann, 1940c: 662.

Ascia monuste dimorphic ♀, *phileta*: Holland, 1942: 278.

Ascia monuste phileta: Comstock, 1943: 3; id., 1944: 530; Chermock, 1946: 144; S. L. de la Torre, 1949: 65; id., 1949d: 174.

This subspecies was reported by the writer in 1949. (See The Lepidopterists' News, vol. III, No. 6, p. 65, and Mem. Soc. Cub. Hist. Nat., vol. XIX, p. 174).

Illustrations.—Holland, 1942: pl. LXVII, f. 16; S. L. de la Torre, 1949d: pl. 5, f. 5.

20. ASCIA (GANYRA) MENCIAE (Ramsden)

Pieris menciae Ramsden, 1915: 15; Bates, 1935: 118; Jaume, 1947: 120.

Ascia (Ganyra) josephina menciae?: Comstock, 1943: 6.

Ascia menciae: S. L. de la Torre, 1949c: 178; id., 1949d: 171.

Genus *Pieris* Schrank

Pieris Schrank, 1801.

Andropodium Hübner, 1822.

Tachyptera Berge, 1842.

Genotype: *Papilio brassicae* Linnaeus, 1758.

21.* PIERIS (SYNCHLOE) PROTODICE PROTODICE Boisduval & Leconte

Pieris protodice: Clark, 1932: 166; Anon. (Aguayo?), 1934: 110; M. Sánchez Roig & G. S. Villalba, 1934: 108; id., 1934b: 31; Bates, 1935: 236; Hoffmann, 1936: 261; id., 1940c: 661; Holland, 1942: 280; Brown, 1944: 116; Rawson, 1945: 49; Bruner, Scaramuzza & Otero, 1945: 22; Garth, 1950: 15.

Pieris rapae: Anon. (Aguayo?), 1934: 34.

Pontia protodice protodice: J.H. Comstock & A. B. Comstock, 1936: 73.

Pieris (Synchloe) protodice f. protodice: Field, 1938b: 196.

Pieris protodice protodice: S. L. de la Torre, 1949: 65; id., 1949d: 171.

In 1933 several specimens of this species were captured by Dr. Mario Sánchez Riog and Gastón S. Villalba on the banks of the Almendares river, Havana province. (See Memorias Sociedad Cubana de Hist. Natural, vol. VIII, p. 108).

In 1934 Mr. José Cabrera collected three specimens more in Cotorro, Havana province. (Memorias Sociedad Cubana de Hist. Natural, vol. VIII, p. 34, and p. 110, (errata).

Illustrations.—Clark, 1932: pl. 29, f. 5-8; Holland, 1942: pl. XXXIV, f. 10, 11; pl. II, f. 7, (larva); pl. V, f. 66, 67, (pupa), text fig. 26a, (larva), 26b, (pupa); J. H. Comstock & A. B. Comstock, 1936: pl. XIII, f. 2, 3, 4; text fig. 27, (venation).

Genus *Appias* Hübner

Appias Hübner, 1819.

Genotype: *Papilio zelmina* Cramer, 1780.

22. APPIAS (GLUTOPHRISSA) DRUSILLA PŒYI Butler

Appias pœyi Butler, 1872.

Pieris ilaire: Poey, 1832.

Pieris pœyi: Gundlach, 1881: 103.

Tachyris ilaire: Holland, 1916: 496.

Appias ilaire pœyi: Bates 1935: 119; Jaume, 1947: 122.

Appias drusilla pœyi: Hall, 1936: 275.

Appias (Glutophrissa) ilaire pœyi: Field, 1938b: 194.

Appias (Glutophrissa) drusilla molpadia: D'Almeida, 1939c: 58; id., 1945: 233.

Appias peregrina: D'Almeida, 1945: 236.

Appias (Glutophrissa) drusilla poeyi: Comstock, 1943b: 2; id., 1944: 526; Dillon, 1947: 97; S. L. de la Torre, 1949c: 179, 180.

Illustrations.—Poey, 1832: 3 figs. not numbered; D'Almeida, 1939c: pl. 3, f. A, C, pl. 4, f. E.

23. APPIAS (GLUTOPHRISSA) DRUSILLA POEYI f. PEREGRINA Röber

Appias janeira f. *peregrina* Röber, 1909.

Appias peregrina: Bates, 1935: 237; Jaume, 1947: 121; D'Almeida, 1939c: 62.

Appias (Glutophrissa) drusilla poeyi var. *peregrina*: Comstock, 1943b: 3.

Appias (Glutophrissa) drusilla poeyi f. *peregrina*: S. L. de la Torre, 1949c: 180.

Genus *Melete* Swainson

Melete Swainson, 1831-32.

Daptonoura Butler, 1869.

Genotype: *Melete limnobia* Swainson, 1831-32 (=*Pieris limnoria* Latreille, 1819).

According to D'Almeida (1943: 80), the genotype of *Daptonoura* Butler is *Papilio flippantha* Fabricius, 1793 (=*Papilio lycimnia* Cramer, 1777), being *Pieris limnoria*, type of the genus *Melete*, a simple subspecies of *Papilio lycimnia* Cramer.

24. MELETE SALACIA CUBANA Fruhstorfer

Melete lycimnia cubana Fruhstorfer, 1908.

Daptonoura salacia: Gundlach, 1881: 105.

Melete salacia: Bates, 1935: 119, Bruner, Scaramuzza & Otero, 1945: 131, 138; Jaume, 1947: 123.

Melete salacia cubana: Bates, 1936: 225.

Illustrations.—Bates, 1935: f. 4, (venation), 5, (profile of head); S. L. de la Torre, 1946: pl. 10, f. 16, 17, (scales).

Genus *Eurema* Hübner

Eurema Hübner, 1819.

Terias Swainson, 1821.

Sphænogona Butler, 1870.

Genotype: *Pieris daira* Latreille, 1819 (=*Eurema demoditas* Hübner, 1819. =*Papilio delia* Cramer, 1780; homonym of *Papilio delia* Schiffermüller & Denis, 1775).

25. EUREMA (ABÆIS) NICIPPE (Cramer)

Papilio nicippe Cramer, 1779.

Eurema nicippe: Gundlach, 1881: 82; Klots, 1929: 103, 110, 120, 132, 147, 155; id., 1948: 51; 1935: 127; J. H. Comstock & A. B. Comstock 1936: 97; Holland, 1942: 301; Bruner, Scaramuzza & Otero, 1945: 32, 33; Avinoff and Shoumatoff, 1946: 269; S. L. de la Torre, 1946: 104; Garth, 1950: 13.

Terias nicippe: Holland, 1916: 498; D'Almeida, 1936: 13; id., 1944d: 74

Eurema nicippe nicippe: Clark, 1932: 149.

Eurema (Terias) nicippe: Hoffmann, 1933: 226.

Terias (Abæis) nicippe: D'Almeida, 1936b: 189, 192, 327; id., 1938: 242.

Abæis nicippe: Brown, 1944: 114.

Eurema (Pyrisitia) nicippe: Comstock, 1944: 525.

Eurema (Abæis) nicippe: Field, 1938b: 189; Hoffmann, 1940c: 659; Munroe, 1947: 3; S. L. de la Torre & Alayo, 1953: 10.

Illustrations.—Klots, 1929: pl. II, f. 36, 37; J. H. Comstock & A. B. Comstock, 1936: pl. XV, f. 3, 5; Holland, 1942: pl. XXXVII, f. 3, 4, 6, pl. II, f. 6, (larva), pl. V, f. 51, 52, (pupa); S. L. de la Torre, 1946: pl. 10, f. 4-7, (scales); d'Almeida, 1936: pl. 2, f. 1, 6, pl. 8, f. 1, 2, (nerviation), pl. 9, f. 4, (genital), pl. 10, f. 2, (genital), f. 3, (palp), pl. 14, f. 4, (antenna), pl. 17, f. 2, 8, 12, (legs), Clark, 1932, pl. 28, f. 6; Comstock, 1944: pl. 8, f. 5; Klots, 1928: pl. II, f. 8, (genital), Pl. III, f. 15; S. L. de la Torre & Alayo, 1953: pl. VIII, f. 1, 2, 5, 6.

26. EUREMA (PYRISITIA) PROTERPIA PROTERPIA (Fabricius)

Papilio proterpia Fabricius, 1775.

Eurema proterpia: Gundlach, 1881: 84; Holland, 1942: 301; Avinoff & Shoumatoff, 1946: 269.

Eurema (Terias) proterpia: Hoffmann, 1933: 226.

Eurema proterpia: Klots, 1929: 104, 106, 107, 137, 147, 159; id.,

1948: 51; Bates, 1935: 128; S. L. de la Torre, 1946: 105.

Terias proterpia proterpia: d'Almeida, 1936: 16; id., 1944: 74; Lichy, 1943: 175.

Terias (Pyrisitia) proterpia proterpia: d'Almeida, 1936b: 192, 328; id., 1938: 242.

Eurema (Pyrisitia) proterpia: Hoffmann, 1940c: 659.

Pyrisitia proterpia: Brown, 1944: 112.

Eurema (Pyrisitia) proterpia proterpia: S. L. de la Torre & Alayo; 1953: 11.

Illustrations.—Holland, 1942: pl. XXXVII, f. 2; Klots, 1929 pl. III, f. 68, 69; id., 1928: pl. III, f. 14, (genital), f. 18, (venation); Bates, 1935: f. 6, (venation); S. L. de la Torre, 1946: pl. 10, f. 9, (scales); d'Almeida, 1936: pl. 2, f. 4, 5, pl. 7, f. 1, 2, (venation); pl. 9, f. 5, (genital), pl. II, f. 1, (genital); S. L. de la Torre & Alayo, 1953: pl. I, figs. 1, 2, 5, 6.

27. EUREMA (PYRISITIA) PROTERPIA PROTERPIA f. GUNDLACHIA
(Poey)

Terias gundlachia Poey, 1853.

Eurema gundlachia: Gundlach, 1881: 85; Klots, 1929, 104, 106, 137, 145, 159, 160; id., 1948: 51; Bates, 1935: 129; Holland, 1942: 300; S. L. de la Torre, 1946: 105.

Terias gundlachia gundlachia: d'Almeida, 1936: 21; id., 1944d: 75.

Terias (Pyrisitia) gundlachia gundlachia: d'Almeida, 1936b: 192, 329.

Eurema (Pyrisitia) gundlachia: Hoffmann, 1940c: 659.

Eurema longicauda: Holland, 1942: 300.

Terias proterpia gundlachia: Lichy, 1943: 175.

Pyrisitia gundlachia: Brown, 1944: 111.

Eurema (Pyrisitia) proterpia proterpia f. gundlachia: S. L. de la Torre & Alayo, 1953: 12.

Illustrations.—Klots, 1929: pl. III, f. 72, 73; Holland, 1942: pl. LXXIII, f. 25, pl. XXXVII, f. 1, (=*E. longicauda*); d'Almeida, 1936: pl. 2, f. 3, 9, pl. 9, f. 7, (genital), pl. 10, f. 6, (palp), pl. 11, f. 2, (genital), pl. 17, f. 3, (legs); S. L. de la Torre & Alayo, 1953: pl. I, f. 3, 4, 7, 8.

28. EUREMA (PYRISITIA) DINA DINA (Poey)

Terias dina Poey, 1832; Holland, 1916: 498.

Eurema dina: Gundlach, 1881: 86.

Eurema dina dina: Klots, 1929: 105, 119, 139, 144, 160; id., 1948: 51; Bates, 1935: 130, (part); Bruner, Scaramuzza & Otero, 1945: 139.

Terias (Pyrisitia) dina dina: d'Almeida, 1936b: 194, 216; id., 1944d: 79.

Eurema (Pyrisitia) dina dina: Comstock, 1944: 525; S. L. de la Torre & Alayo, 1953: 13.

Illustrations.—Poey, 1832: 2 figs. not numbered; Klots, 1929: pl. III, f. 79; d'Almeida, 1936b: pl. 5, f. 3, (genital), pl. 9, f. 7, (genital), pl. 13, f. 20, pl. 15, f. 7, pl. 16, f. 7; S. L. de la Torre & Alayo, 1953: pl. II, f. 1, 2, 6, 7.

29. EUREMA (PYRISITIA) DINA DINA f. CITRINA (Poey)

Terias citrina Poey, 1853; Holland, 1916: 498.

Eurema citrina: Gundlach, 1881: 87.

Eurema dina f. ♀ citrina: Klots, 1929: 105, 118, 119, 139, 144, 160.

Eurema dina dina: Bates, 1935: 130. (Part.)

Terias (Pyrisitia) dina citrina: d'Almeida, 1936b: 194.

Terias (Pyrisitia) dina dina, var. i: d'Almeida, 1936b: 218; id., 1938: 232.

Terias dina var. *citrina*: d'Almeida, 1944d: 79.

Eurema (Pyrisitia) dina citrina: S. L. de la Torre, 1949: 65.

Eurema (Pyrisitia) dina dina f. citrina: S. L. de la Torre & Alayo, 1953: 13.

This is the winter form of *E. dina dina*.

Illustrations.—Klots, 1929: pl. III, f. 80; d'Almeida, 1936b: pl. 12, f. 5; S. L. de la Torre & Alayo, 1953: pl. II, f. 3, 4, 8, 9.

30. EUREMA (PYRISITIA) LARÆ (Herrich-Schäffer)

Terias laræ Herrich-Schäffer, 1862: 120

Eurema laræ: Gundlach, 1881: 88; Bates, 1936: 226; Bruner, Scaramuzza & Otero, 1945: 175; Munroe, 1947: 4; id., 1950: 175.

Eurema (Pyrisitia) laræ: S. L. de la Torre & Alayo, 1953: 14.

Illustrations.—S. L. de la Torre & Alayo, 1953: pl. III, f. 1, 2, 7, 8.

31. EUREMA (PYRISITIA) LARÆ f. RICARDI S. L. Torre & Alayo

Eurema (Pyrisitia) laræ f. ricardi S. L. de la Torre & Alayo, 1953: 15.

Illustrations.—S. L. de la Torre & Alayo, pl. III, f. 3, 4, 9, 10.

This is the summer form of *E. laræ*, which was described by Dr. S. L. de la Torre and P. Alayo in 1953. (See Bull. Orte. Dpto. Ext. y Rel. Cult., No. 27)

32. EUREMA (PYRISITIA) NEDA (Latreille)

Pieris neda Latreille, 1819.

Eurema nise perimede: Klots, 1929: 105, 119, 140, 147, 162; id., 1948: 51.

Eurema nise: Bates, 1935: 129; Bruner, 1947: 25.

Terias (Pyrisitia) neda: d'Almeida, 1936b: 196, 239; id., 1938: 234; id., 1944d: 82.

Eurema (Pyrisitia) neda: S. L. de la Torre & Alayo, 1953: 16.

Illustrations.—Klots, 1929: pl. IV, f. 93, 94; d'Almeida, 1936b: pl. 2, f. 1, (genital), pl. 4, f. 2, (genital) pl. 9, f. 4, (genital), pl. 13, f. 15, 16, pl. 16, f. 8; S. L. de la Torre & Alayo, 1953: pl III, f. 5, 6, 11, 12.

33.* EUREMA (PYRISITIA) NISE (Cramer)

Papilio nise Cramer, 1775: 31.

Eurema venusta: Klots, 1929: 141.

Terias nise: d'Almeida, 1936: 244; id., 1938: 234; id., 1944d: 82.

Eurema venusta venusta: Dillon, 1947: 100.

Eurema nise: Munroe, 1950: 180.

Eurema (Pyrisitia) nise: S. L. de la Torre & Alayo, 1953: 16.

Illustrations.—S. L. de la Torre & Alayo, 1953: pl. II, f. 5, 10,

Mr. J. Cabrera collected two specimens of this species in Pinar del Rio province (1910), which are in Chas. T. Ramsden's Museum of the University of Oriente, in Santiago de Cuba. This new record was reported by Dr. Salvador L. de la Torre and Pastor Alayo in 1953.

34. EUREMA (PYRISITIA) LISA EUTERPE (Ménétriés)

Colias euterpe Ménétriés, 1832.

Eurema lisa: Gundlach, 1881: 89; Bates, 1935: 130; Dethier, 1940: 21.

Terias euterpe: Holland, 1916: 499. . .

Eurema lisa euterpe: Klots, 1929: 105, 116, 138, 145, 160; Avinoff & Shoumatoff, 1946: 271.

Terias (Pyrisitia) euterpe: d'Almeida, 1936b: 193, 251; id., 1938: 234; id., 1944d: 83.

Eurema (Pyrisitia) lisa euterpe: Comstock, 1944: 523; Beatty, 1944:

157; J. A. Ramos, 1946: 53; S. L. de la Torre & Alayo, 1953: 17. D'Almeida does not divide this species into subspecies, considering the species of Cuba and Haiti similar to those of the mainland.

Comstock, however, finds sufficient differences between the two to justify its separation into subspecies.

D'Almeida (1936b: 256, 257) called *pauperata* to a variety of his *Terias euterpe*, characterized by being smaller and lighter; which inhabits Cuba, (See pl. 12, f. 3).

Illustrations.—Bates, 1935: f. 7, (profile of head); S. L. de la Torre, 1946: pl. 10, f. 1-3, (scales); Klots, 1929: pl. III, f. 78; d'Almeida, 1936b: pl. 6, f. 4. (genital), pl. 12, f. 3, (var. *pauperata*), f. 10, pl. 14, f. 10, pl. 16, f. 10; Comstock, 1944: pl. 9, f. 24; Klots, 1928: pl. 12, (genital), f. 17, (venation); S. L. de la Torre & Alayo, 1953: pl. IV, f. 1, 2, 3, 7, 8, 9.

35. EUREMA (PYRISITIA) MESSALINA MESSALINA (Fabricius)

Papilio messalina Fabricius, 1787.

Eurema messalina: Gundlach, 1881: 98; Klots, 1929: 103, 114, 115, 116, 131, 147, 155, 156; id., 1948: 51; Avinoff & Shoumatoff, 1946: 269.

Eurema messalina messalina: Bates, 1935: 126; Bruner, Scaramuzza & Otero, 1945: 66.

Terias (Pyrisitia) messalina messalina: d' Almeida, 1936b: 198, 262; id., 1938: 235; id., 1944d: 85.

Eurema (Pyrisitia) messalina messalina: S. L. de la Torre & Alayo, 1953: 18.

Illustrations.—Klots, 1929: pl. II, f. 41, 42; S. L. de la Torre, 1946: pl. 10, f. 11, 12, (scales); d'Almeida, 1936b: pl. 8, f. 11, (genital), pl. 12, f. 2, pl. 13, f. 7, pl. 18, f. 4; S. L. de la Torre & Alayo, 1953, pl. IV, f. 6, 12, (winter form).

36. EUREMA (PYRISITIA) MESSALINA MESSALINA *f.* GNATHENE (Boisduval)

Terias gnathene Boisduval, 1836.

Eurema messalina: Gundlach, 1881: 98 (in part).

Eurema messalina messalina: Bates, 1935: 126 (in part).

Terias (Pyrisitia) messalina messalina var. *f.*: d'Almeida, 1936b: 264.

Eurema (Pyrisitia) messalina messalina *f.* *gnathene*: S. L. de la

Torre & Alayo, 1953: 19.

Illustrations.—S. L. de la Torre & Alayo, 1953: pl. IV, f. 4, 5, 10, 11.
This is the summer form of *E. messalina messalina*.

37. EUREMA (EUREMA) LUCINA LUCINA (Poey)

Terias lucina Poey, 1853; Holland, 1916: 499.

Eurema lucina: Gundlach, 1881: 95; Bates, 1935: 124; Bruner, Scaramuzza & Otero, 1945: 177.

Eurema lucina f. *lucina*: Klots, 1929: 102, 113, 123, 146, 150.

Terias (Eurema) lucina lucina: d'Almeida, 1936b: 205, 226; id., 1944d: 85.

Eurema (Eurema) lucina lucina: S. L. de la Torre & Alayo, 1953: 19.

Illustrations.—S. L. de la Torre, 1946: pl. 10, f. 8, (scales); Klots, 1929: pl. I, f. 1; id.; 1928: pl. II, f. 4, (genital); d'Almeida, 1936b: pl. 12, f. 1; pl. 16, f. 14; S. L. de la Torre & Alayo, 1953: pl. IV, f. 1, 2, 6, 7.

38. EUREMA (EUREMA) LUCINA LUCINA f. FORNSI (Poey)

Terias fornsi Poey, 1854.

Eurema fornsi: Gundlach, 1881: 96.

Eurema lucina form *fornsi*: Klots, 1929: 102, 113, 123, 145, 150.

Eurema priddyi forbesi: Klots, 1929: 102, 115, 123, 124, 145, 150.

Terias (Eurema) lucina fornsi: d'Almeida, 1936b: 205, 267; id., 1944d: 85.

Eurema (Eurema) lucina lucina f. *fornsi*: S. L. de la Torre & Alayo, 1953: 20.

Illustrations.—Klots, 1929: pl. I, f. 2, (form *fornsi*), f. 4, 5, (form *priddyi forbesi*); d'Almeida, 1936b: pl. 8, f. 14, (genital); pl. 12, f. 4; pl. 18, f. 6; S. L. de la Torre & Alayo, 1953: pl. IV, f. 3, 4, 8, 9:
This is the winter form of *E. lucina lucina*.

39. EUREMA (EUREMA) CONJUNGENS (Herrich-Schäffer)

Terias conjungens Herrich-Schäffer, 1864.

Eurema conjungens: Gundlach, 1881: 97.

Eurema (Eurema) conjungens: S. L. de la Torre & Alayo, 1953: 20.

Illustrations.—S. L. de la Torre & Alayo, 1953: pl. V, f. 5.

Mr. P. Alayo has one specimen of this species collected in Oriente province.

40. EUREMA (EUREMA) DAIRA PALMIRA (Poey)

Terias palmira Poey, 1851.

Terias albina Poey, 1851.

Eurema palmira: Gundlach, 1881: 92; Klots, 1948: 52 and 112, (errata).

Eurema albina: Gundlach 1881: 94.

Eurema palmyra palmyra: Klots, 1929: 102, 113, 126, 147, 151.

Eurema palymira: Avinoff & Shoumatoff, 1946: 270.

Eurema daira palmira: Bates, (in part), 1935: 125; id., 1939: 2; d'Almeida, 1944d: 86; Bruner, Scaramuzza & Otero, 1945: 9, 66.

Terias daira palmyra: Hall, 1936: 275.

Terias (Eurema) jucunda palmira: d'Almeida, 1936b: 208, 273; id., 1938: 235; id., 1944d: 85.

Eurema (Eurema) palmira palmira: Comstock, 1944: 519; J. A. Ramos, 1946: 53.

Eurema (Eurema) daira palmira: S. L. de la Torre & Alayo, 1953: 21.

Illustrations.—Klots, 1929: pl. I, f. 11; d'Almeida, 1936b: pl. 15, f. 10, 11; Comstock, 1944: pl. 9, f. 26; S. L. de la Torre & Alayo, 1953: pl. VI, f. 1, 2, 5, 6.

41. EUREMA (EUREMA) DAIRA PALMIRA f. EBRIOLA (Poey)

Terias ebriola Poey, 1851.

Eurema jucunda: Gundlach, 1881: 94, (not Boisduval & Leconte).

Eurema daira ebriola: Klots, 1929: 103, 113, 126, 144, 152.

Eurema daira palmira: Bates, 1935: 125, (in part).

Terias (Eurema) daira ebriola: d'Almeida, 1936b: 211, 214, 280; id., 1944d: 86.

Eurema (Eurema) daira ebriola: Comstock, 1944: 520; Beatty, 1944: 157; S. L. de la Torre, 1949: 65.

Eurema ebriola: Avinoff & Shoumatoff, 1946: 271; Klots, 1948: 52

Eurema (Eurema) daira palmira f. ebriola: S. L. de la Torre & Alayo, 1953: 21.

Illustrations.—Klots, 1929: pl. I, f. 19, 20; d' Almeida, 1936b: pl. 7, f. 2, (genital), pl. 8, f. 7, 13, (genital), pl. 14, f. 7, pl. 15, f. 3; Comstock, 1944: pl. 9, f. 25; Klots, 1928: pl. II, f. 5, (genital); S. L. de la Torre & Alayo, 1953: pl. VI, f. 3, 4, 7, 8. This is the winter form of *E. daira palmira*.

42. EUREMA (EUREMA) ELATHEA ELATHEA (Cramer)

Papilio elathea Cramer, 1777.

Eurema elathea: Gundlach, 1881: 91; Bates, 1935: 126; Avinoff & Shoumatoff, 1946: 271; Klots, 1948: 52; Munroe, 1951: 55.

Terias elathea: Holland, 1916: 499; Hall, 1936: 275.

Eurema elathea f. elathea: Klots, 1929: 103, 111, 128, 152.

Eurema (Terias) elathea: Hoffmann, 1933: 226.

Terias (Eurema) elathea elathea: d'Almeida, 1936b: 211, 213, 285, 299; id., 1938: 235; id., 1944d: 87; Berger, 1939: 190.

Terias (Eurema) lye d'Almeida, 1936b: 212, 284; id., 1944d: 86.

Eurema (Eurema) elathea: Comstock, 1944: 521; Beatty, 1944: 157.

Eurema (Eurema) elathea elathea: S. L. de la Torre & Alayo, 1953: 22.

D'Almeida in his "Segunda nota suplementar a "Revisao das *Terias Americanas*", (1944d: 86), admits that his *Terias lye* does not seem to be a good species, placing it as a synonym of *Eurema elathea* and not of *E. daira palmira* as done by Bates (1939: 2).

Illustrations.—Klots, 1929: pl. I, f. 21, 22; d'Almeida, 1936b: pl. 11, f. 1, pl. 13, f. 6, pl. 15, f. 1, (*T. lye*); Comstock, 1944: pl. 9, f. 23; text fig. 22, (venation); S. L. de la Torre & Alayo, 1953: pl. VII, f. 1, 2, 3, 6, 7, 8.

43. EUREMA (EUREMA) ELATHEA ELATHEA *f. CUBANÀ* (Herrich-Schäffer)

Terias cubana Herrich-Schäffer, 1864.

Eurema cubana: Gundlach, 1881: 90.

Eurema palmyra palmyra: Klots (in part), 1929: 102, 126.

Eurema daira palmira: Bates, 1935: 125, (in part).

Terias elathea var. c-male and var. n-female; d'Almeida, 1936b: 288, 289.

Eurema (Eurema) palmira palmira: Comstock (in part), 1944: 519.

Eurema (Eurema) elathea cubana: S. L. de la Torre, 1949: 65.

Eurema (Eurema) elathea elathea f. cubana: S. L. de la Torre & Alayo, 1953: 23.

William P. Comstock places to *Terias cubana* in the synonym of his *E. (Eurema) palmira palmira*; d'Almeida places it in the synonym of *Terias elathea*. We think that *Terias cubana* is a seasonal form of this species.

Illustrations.—S. L. de la Torre & Alayo, 1953: pl. VII, f. 4, 5, 9, 10.

44. EUREMA (EUREMA) AMELIA (Poey)

Terias amelia Poey, 1853; Holland, 1916: 499.

Eurema amelia: Gundlach, 1881: 98; Klots, 1929: 104, 110, 136, 143, 154; Bates, 1935: 128.

Terias (Eurema) amelia: d'Almeida, 1936b: 204, 307; id., 1944d: 88.

Eurema (Eurema) amelia: S. L. de la Torre & Alayo, 1953: 24.

Illustrations.—Klots, 1929: pl. II, f. 33; d'Almeida, 1936b: pl. 8, f. 16, (genital), pl. 14, f. 22; Klots, 1928: pl. II, f. 2, (genital); S. L. de la Torre & Alayo, 1953: pl V, f. 10.

45. EUREMA (EUREMA) BOISDUVALIANA (Felder & Felder)

Terias boisduvaliana Felder & Felder, 1865; d'Almeida, 1936: 41; id., 1944d: 77.

Eurema boisduvaliana: Klots, 1929: 104, 107, 108, 133, 143, 157; id., 1948: 51; Bates, 1935: 127; Brown 1944: 109; Bruner, 1947: 25.

Terias (Eurema) boisduvaliana: d'Almeida, 1936b: 201, 202, 307, 332.

Eurema (Eurema) boisduvaliana: Hoffmann, 1940c: 658; S. L. de la Torre & Alayo, 1953: 25.

Illustrations.—Klots, 1929: pl. II, f. 51, 52; S. L. de la Torre & Alayo, 1953: pl. VIII, f. 3, 4, 7, 8.

Genus *Phoebis* Hübner

Phoebis Hübner, 1819.

Callidryas Boisduval & Leconte, 1829.

Metura Butler, 1873; preoccupied in the family *Psychidae*.

Aphrissa Butler, 1873.

Rhabdodryas Godman & Salvin, 1889.

Parura Kirby, 1896, (for Metura).

Prestonia Schaus, 1920.

...

Genotype: *Papilio argante* Fabricius, 1775 (=*Papilio cipris* Cramer, 1777).

46. PHŒBIS (PHŒBIS) SENNÆ SENNÆ (Linnæus)

Papilio sennæ Linnæus, 1758.

Catopsilia eubule: Gundlach, 1881: 115; Holland, 1916: 496; Hall, 1936: 275.

Phæbis eubule sennæ: Brown, 1929: 8; Avinoff & Shoumatoff, 1946: 272.

Phæbis eubule sennæ f. ♀ *sennalba* Brown, 1929: 8.

Phæbis sennæ sennæ: Bates, 1935: 133; Field, 1938b: 185; d'Almeida, 1940: 70; id., 1944b: 2; Bruner, Scaramuzza & Otero, 1945: 31-33; S. L. de la Torre, 1946b: 109, 111, 120; Munroe, 1951: 56.

Phæbis eubule sennæ?: Schweizer, 1941: 9.

Phæbis (Phæbis) sennæ sennæ: Comstock, 1944: 505; Beatty, 1944: 157; J. A. Ramos, 1946: 53.

Illustrations.—Brown 1929: f. 8-10, (genital); Comstock, 1944: pl. 8, f. 6; d'Almeida, 1940: pl. 1, f. 3, (genital), pl. 3, f. 3, 5, pl. 4, f. 5-7, pl. 6, f. 2, 10, 12, pl. 9, f. 1, pl. 11, f. 6, (larva), 8, 10, (pupa).

47. PHÆBIS (PHÆBIS) PHILEA THALESTRIS (Illiger)

Papilio Danaus thalestris Illiger, 1801.

Catopsilia thalestris: Gundlach, 1881: 107; id., 1891: 449.

Phæbis philea thalestris: Brown, 1929: 11; Bates, 1935: 134; d'Almeida, 1940: 117; id., 1944b: 10; Bruner, Scaramuzza & Otero, 1945: 32.

William P. Comstock (1944: 510) considers *Phæbis philea* as a distinct species of *Phæbis thalestris*, and says that both species "occur together in Cuba".

Illustrations.—Brown, 1929: f. 14-16, (genital); d'Almeida, 1940: pl. 3, f. 8, pl. 5, f. 6, pl. 8, f. 4, pl. 9, f. 5, Comstock, 1944: pl. 10, f. 14, (*Phæbis philea* (Johansson)).

48. PHÆBIS (PHÆBIS) AVELLANEDA (Herrich-Schäffer)

Callidryas avellaneda Herrich-Schäffer, 1864.

Catopsilia avellaneda: Gundlach, 1881: 109.

Phæbis avellaneda: Brown, 1929: 11; Bates, 1935: 134; d'Almeida, 1940: 120; id., 1944b: 10.

Illustrations.—Brown, 1929: f. 17-19, (genital); d'Almeida, 1940: pl. 1, f. 9, (genital), pl. 2, f. 7, (genital), pl. 5, f. 1, pl. 7, f. 2, pl. 8, f. 1, pl. 10, f. 1; S. L. de la Torre, 1946: pl. 10, f. 25, (scales).

49. PHÆBIS (PHÆBIS) ARGANTE MINUSCULA (Butler)

Callidryas minuscula Butler, 1869.

Catopsilia argante: Gundlach, 1881: 110.

Phæbis argante rorata: Brown, 1929: 13; Bates, 1935: 135.

Phæbis (Phæbis) argante f. ♀ *clarki*: Hoffmann, 1940c: 657

Phæbis argante argante: d'Almeida, 1940: 89, 103; id., 1944b: 6.

Phæbis (Phæbis) argante minuscula: Comstock, 1944: 508; S. L. de la Torre, 1952: 61.

The subspecies *rorata* is of the Hispaniola and possibly it can be found in Cuba, according to Comstock.

Illustrations.—Brown, 1929: f. 23-25, (genital); d'Almeida, 1940: pl. 1, f. 4, (genital), pl. 2, f. 1, (venation), f. 8-10, (legs), f. 13, (genital), f. 14, (antenna), f. 15, (palp), pl. 3, f. 2, (f. *albante*); f. 6, 7, pl. 4, f. 1, 4, pl. 5, f. 3, pl. 6, f. 3, 4, 6, 8, 11, pl. 7, f. 3, pl. 11, f. 5, (larva), f. 7, 9, (pupa); S. L. de la Torre, 1946: pl. 10, f. 31-35, (scales).

50. PHÆBIS (PHÆBIS) AGARITHE ANTILLIA Brown

Phæbis agarithe antillia Brown, 1929: 15; Avinoff & Shoumatoff, 1946: 273; Dillon, 1947: 98; L. Vázquez, 1948b: 472.

Catopsilia agarithe: Gundlach, 1881: 111.

Catopsilia agarithe fornax: Holland, 1916: 497.

Phæbis agarithe agarithe: Bates, 1935: 135.

Phæbis agarithe antillea: d'Almeida, 1940: 107.

Phæbis (Phæbis) agarithe antillia: Comstock, 1944: 509; S. L. de la Torre, 1952: 65.

Illustrations.—Brown, 1929: f. 20-22, (genital); Comstock, 1944: pl. 10, f. 9; S. L. de la Torre, 1946: pl. 10, f. 26-28, (scales).

51. PHÆBIS (APHRISSA) STATIRA CUBANA d'Almeida

Abrissa statira cubana d'Almeida, 1939b: 432.

Catopsilia statira: Gundlach, 1881: 118; id., 1891: 449.

Catopsilia neleis: Holland, 1916: 497.

Phæbis statira jada: Bates, 1935: 136.

Phæbis statira cubana: Avinoff & Shoumatoff, 1946: 273.

Phæbis (Aphrissa) statira cubana: Comstock, 1944: 513; Munroe, 1947: 2; S. L. de la Torre, 1949c: 183.

According to d'Almeida, *jada* is merely a simple form of *statira*, which inhabits the mainland.

Illustrations.—Brown, 1929: f. 5-7, (genital); d'Almeida, 1939b: pl. 6, f. 6; Comstock, 1944: pl. 10, f. 11; S. L. de la Torre, 1946: pl. 10, f. 29, 30, (scales)

52. PHŒBIS (APHRISSA) NELEIS (Boisduval)

Callidryas neleis Boisduval, 1836

Catopsilia neleis: Gundlach, 1881: 117.

Catopsilia editha?: Holland, 1916: 498.

Phœbis neleis: Bates, 1935: 137; Munroe, 1947: 2.

Aphrissa neleis neleis: d'Almeida, 1939b: 433.

Phœbis (Aphrissa) neleis: Comstock, 1944: 513; S. L. de la Torre, 1949c: 183.

We separate *statira* from *neleis* because the genitals of those species offer great differences.

Illustrations.—d'Almeida, 1939b: pl. 5, f. 19, 20, (genital), pl. 6, f. 3-5.

53. PHŒBIS (APHRISSA) ORBIS (Poey)

Callidryas orbis Poey, 1832.

Catopsilia orbis: Gundlach, 1881: 113.

Catopsillia drya: Holland, 1916: 497.

Phœbis orbis: Bates, 1935: 138.

Aphrissa orbis: d'Almeida, 1939b: 438.

Phœbis (Aphrissa) orbis orbis: Munroe, 1947: 1; S. L. de la Torre, 1949c: 183, 184.

Illustrations.—d'Almeida, 1939b: pl. 5, f. 12, 15, 17, (genital), pl. 7, f. 1, 2, pl. 8, f. 4, 8; Poey, 1832: 5 figs. not numbered.

Genus *Anteos* Hübner

Anteos Hübner, 1819.

Amyntbia Swainson, 1831.

Genotype: *Papilio mærula* Fabricius, 1775.

The genotype of *Gonepteryx* (¹) is *Papilio rhamni* Linnæus, 1758; the only species cited of that genus.

¹ *Gonepteryx* Leach, 1815.

Gonoptera Billberg, 1820.

Rhodocera Boisduval & Leconte, 1833.

Goniapteryx Westwood, 1840.

Gonioptera Wallengren, 1853.

54. ANTEOS MÆRULA MÆRULA (Fabricius)

Papilio mærula Fabricius, 1775.

Gonepteryx mærula: Gundlach, 1881: 119.

Anteos mærula mærula: Bates, 1935: 139; Comstock, 1944: 502; Bruner, Scaramuzza & Otero, 1945: 32.

Anteos mærula: Field, 1938b: 183; d'Almeida, 1938b: 575; id., 1945: 230; Hoffmann, 1940c: 656; Brown, 1944: 103; Avinoff & Shoumatoff, 1946: 274.

Illustrations.—d'Almeida, 1938b: pl. 1, f. 1, (venation), f. 9, (genital), pl. 3, f. 1, 2; Comstock, 1944: pl. 8, f. 7.

55. ANTEOS CLORINDE (Godart)

Colias clorinde Godart, 1823.

Anteos clorinde nivifera: Bates, 1935: 139; Dethier, 1940: 17; Comstock, 1944: 503.

Anteos clorinde: Field, 1938b: 183; d'Almeida, 1938b: 572; id., 1945: 229; Hoffmann 1940c: 656; Brown, 1944: 102; S. L. de la Torre, 1952: 63.

Gonepteryx clorinde: Holland, 1942: 290

Anteos clorinde clorinde: Schweizer, 1941: 10; Comstock, 1944: 503.

Illustrations.—d'Almeida, 1938b: pl. 1, f. 2-4, (legs), f. 7, 8, (genital), f. 10, (palp), f. 11, (antenna), f. 12, (genital), pl. 2, f. 1; Holland, 1942: pl. LXXI, f. 11; S. L. de la Torre, 1946: pl. 10, f. 23, 24, (scales).

Genus *Kricogonia* Reakirt

Kricogonia Reakirt, 1863.

Genotype: *Colias lyside* Latreille, 1819.

56. KRICOGONIA LYSIDE (Latreille)

Colias lyside Latreille (not Godart), 1819. (See Brown, 1941: 132).

Kricogonia lyside: Gundlach, 1881: 120; Bates, 1935: 141; Field, 1938b: 187; Hoffmann, 1940c: 658; Brown, 1944: 106; Comstock, 1944: 517; Avinoff & Shoumatoff, 1946: 272.

Kricogonia lyside form ♂ terissa: Field, 1938b: 187.

Kricogonia lyside ab. *unicolor*: Avinoff & Shoumatoff, 1946: 272.

Illustrations.—Holland, 1942: pl. XXXIV, f. 20, 21; Comstock, 1944: text figs. 20, 21, (venations), pl. 10, f. 8.

57. KRICOGONIA CABRERAI Ramsden

Kricogonia cabrerai Ramsden, 1920: 259; id., 1922: 211; Bates, 1935: 141.

William P. Comstock supposes that *Kricogonia cabrerai* Ramsden can be a subspecies of *Kricogonia castalia* (Fabricius). See Insects of Porto Rico and the Virgin Islands, 1944: 515).

Subfamily *Coliadinae*

Genus *Zerene* Hübner

Zerene Hübner, 1819.

Meganostoma Reakirt, 1863.

Meganostoma Kirby, 1871.

Genotype: *Papilio cesonia* Stoll, 1790.

58. ZERENE CESONIA CESONIA (Stoll)

Papilio cesonia Stoll, 1790.

Meganostoma cesonia: Gundlach, 1881: 105; Hoffmann, 1936: 261.

Zerene cæsonia: Showalter, 1927: 109; Fazzini, 1934: 42; J. H. Comstock & A. B. Comstock, 1936: 90; Hoffmann, 1940c: 656; Holland, 1942: 292; Brown, 1944: 102; Garth, 1950: 13; Vázquez, 1953: 257.

Zerene cæsonia cæsonia: Clark, 1932: 251.

Zerene cesonia cesonia: Bates, 1935: 141.

Colias (*Zerene*) *cæsonia*: Field, 1938b: 182.

Illustrations.—Showalter, 1927: pl. IV, f. 9; Clark, 1932: pl. 28, f. 5; Fazzini, 1934: p. 42, fig. not numbered; J. H. Comstock & A. B. Comstock, 1936: pl. XVII, f. 5, 6; Holland, 1942: pl. XXXVI, f. 3, 4.

Genus *Nathalis* Boisduval

Nathalis Boisduval, 1836.

Genotype: *Nathalis iole* Boisduval, 1836.

59. NATHALIS IOLE Boisduval

Nathalis iole Boisduval, 1836; Hoffman, 1933: 227; id., 1940c: 659; Bates 1935: 142; J. H. Comstock & A. B. Comstock, 1936: 86;

Dethier, 1940: 19; Avinoff & Shoumatoff, 1941: 309; id., 1946: 271; Holland, 1942: 283; Brown, 1944: 114; Garth, 1950: 14; S. L. de la Torre, 1951b: 89.

Nathalis iole: Gundlach, 1881: 99; Hoffmann, 1936: 261.

Nathalis iole f. iole: Field, 1938b: 193.

Illustrations.—J. H. Comstock & A. B. Comstock, 1936: pl. XV, f. 4, 6; Holland, 1942: pl. XXXII, f. 21, 22; S. L. de la Torre, 1946: pl. 10, f. 13-15, (scales); id., 1951b: pl. XLIV, f. 1.

60. *NATHALIS IOLE f. ALAYOI* S. L. de la Torre

Nathalis iole f. alayoi S. L. de la Torre, 1951b: 89.

This form was described by the writer in 1951 (See Memorias de la Sociedad Cubana de Hist. Nat., vol. XX, pp. 89-92).

Illustrations.—S. L. de la Torre, 1951b: pl. XLIV, f. 2.

Subfamily *Dismorphiinae*

Genus *Dismorphia* Hübner

Dismorphia Hübner, 1816.

Leptalis Dalman, 1823.

Hemerocharis Boisduval, 1836.

Genotype: *Papilio laia* Cramer, 1779.

61. *DISMORPHIA CUBANA* (Herrich-Schäffer)

Leptalis cubana Herrich-Schäffer), 1862

Dismorphia cubana: Gundlach, 1881: 81; Bates, 1935: 143.

Illustrations.—Bates, 1935: f. 8, (venation); S. L. de la Torre, 1946: pl. 10, f. 18, 19, (scales).

(TO BE CONTINUED)